

Western Electric Co., Incorporated,  
Engineering Dept.,  
New York.

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Issue 2 - BT-438582.  
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METHOD OF OPERATION  
SIGNAL CIRCUIT

Buzzer - Machine Switching System - Repair Clerk's Desk #1

GENERAL DESCRIPTION

1. This circuit is used to supply interrupted battery to the lamps of incoming trunk circuits at a repair clerk's desk, causing the lamps to flash incoming calls. The circuit may be arranged to provide an audible signal. Duplicate flashing equipment is provided in case of emergency.

2. The circuit is associated with a key which is used to transfer calls for the repair clerk's desk to the intercepting operator's position.

DETAILED DESCRIPTION

OPERATION

INCOMING CALL ANSWERED AT THE REPAIR CLERK'S DESK

3. When the trunk circuit to the repair clerk's desk is seized by a district or office selector, a circuit is closed from battery through the winding of a relay in the trunk circuit, the windings of the repeating coil and the winding of a relay in the district selector, to ground through the winding of the B10 relay which operates. The B10 relay operated closes a circuit from battery through a contact of the transfer key (the wiring of which is not shown on this drawing), through the winding of the A or B relay, depending upon the position of the key shown in figure 3 to ground through the BB interrupter. The duplicate relays provide against trouble caused by battery supply passing through relay contacts. The A or B relay operates intermittently supplying battery to the trunk lamps at the repair clerk's desk, causing them to flash. The A or B relay operated, also supplies battery under control of the key shown in figure 4 to the 4-A buzzer, if provided.

4. When the call is answered, the B10 relay releases, opening the circuit through the winding of the A or B relay, which releases, extinguishing the trunk lamps and silencing the buzzer.

INCOMING CALL TRANSFERRED TO INTERCEPTING OPERATOR'S POSITION.

5. If the associated transfer key is operated, the circuit through the winding of the A or B relay is not closed when the B10 relay operates and no signals are given at the repair clerk's desk. An answering jack and a lamp (the latter under control of the transfer key) are provided at the intercepting operator's position. When the call is answered, the B10 relay releases, restoring the circuit to normal.

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CIRCUIT REQUIREMENTS

	<u>OPERATE</u>	<u>NON-OPERATE</u>	<u>RELEASE</u>
B10	Test .027 amp. Readj. .025 amp.		Test .002 amp. Readj. .004 amp.
E344 (A or B) windings in parallel	At 120 times per minute. Test .030 amp. Readj. .028 amp.		Test .0047 amp. Readj. .005 amp.

ENG.--WHL-VL.  
10/4/21

CHK'D.--ASP.

APPROVED - C.L.SLUYTER, G.M.L.